

06/11/01  
J1054 U.S. PTO

Please type a plus sign (+) inside this box [ + ]

PTO/SB/05 (11-00)  
Approved for use through 10/31/2002. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY PATENT APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42390.P11430

(maximum 12 characters)

First Named Inventor Qing Ma

Title: APPARATUS FOR ADJUSTING THE RESONANCE FREQUENCY OF A MICROELECTROMECHANICAL (MEMS) RESONATOR USING TENSILE/COMPRESSIVE STRAIN AND APPLICATIONS THEREOF

Express Mail Label No. EL431685403US

ADDRESS TO: **Assistant Commissioner for Patents  
Box Patent Application  
Washington, D. C. 20231**

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.   X   **Fee Transmittal Form (e.g., PTO/SB/17)**  
(Submit an original, and a duplicate for fee processing)
2.        **Applicant Claims Small Entity Status. (37 CFR 1.27)**
3.   X   **Specification (Total Pages   31  )**  
(preferred arrangement set forth below)
  - Descriptive Title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference sequence listing, a table,  
or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.   X   **Drawings(s) (35 USC 113) (Total Sheets   22  )**
5.        **Oath or Declaration (Total Pages       )**
  - a.        Newly Executed (Original or Copy)
  - b.        Copy from a Prior Application (37 CFR 1.63(d))  
(for Continuation/Divisional with Box 17 completed)
    - i.        DELETIONS OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
  - c.        Unsigned.
6.        **Application Data Sheet. (37 CFR 1.76)**
7.        CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8.        Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a.        Computer Readable Form (CRF)
  - b.        Specification Sequence Listing on:
    - i.        CD-ROM or CD-R (2 copies); or
    - ii.        paper
  - c.        Statement verifying identity of above copies

[illegible]

- 18A. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:**

(which is a      continuation/      divisional/      CIP of prior application no.                     ,  
which is a      continuation/      divisional/      CIP of prior application no.                     ) (List entire chain of priority)

**18B. Statement under 37 CFR 3.73(b) for continuing application:**

**19. Correspondence Address**

**X** Correspondence Address Below

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

## Seventh Floor

Country U.S.A. TELEPHONE (425) 827-8600 FAX (425) 827-5644

Signature: \_\_\_\_\_ Date: 6/17/01

Our Reference: 042390.P11430

Patent

APPARATUS FOR ADJUSTING THE RESONANCE FREQUENCY OF A  
MICROELECTROMECHANICAL (MEMS) RESONATOR USING  
TENSILE/COMPRESSIVE STRAIN AND APPLICATIONS THEREOF

Inventors: Qing Ma and Andy Berlin

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

Chun M. Ng  
Reg. No. 36,878

"Express Mail" mailing label number: EL431685403US  
Date of Deposit: June 11, 2001

I hereby certify that I am causing this paper or fee to be  
deposited with the United States Postal Service "Express Mail  
Post Office to Addressee" service on the date indicated above  
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Commissioner for Patents, Washington, D. C. 20231

Sharon Farnus

(Typed or printed name of person mailing paper or fee)

(Signature of person mailing paper or fee) (Date signed)

Serial/Patent No.: New Application Filing/Issue Date: Herewith  
Client: Intel Corporation  
Title: APPARATUS FOR ADJUSTING THE RESONANCE FREQUENCY OF A  
MICROELECTROMECHANICAL (MEMS) RESONATOR USING TENSILE/COMPRESSIVE...  
BSTZ File No.: 42390.P11430 Atty/Secty Initials: CMN:sef  
Date Mailed: 6-11-01 Docket Due Date: \*\*\*

The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Amendment/Response (____ pgs.)  | <input checked="" type="checkbox"/> Express Mail No.: <u>EL431685403US</u>           | <input checked="" type="checkbox"/> Check No. <u>1316</u> |
| <input type="checkbox"/> Appeal Brief (____ pgs.) (in triplicate)                                    | <input type="checkbox"/> _____ Month(s) Extension of Time                            | Amt: <u>\$1222.00</u>                                     |
| <input checked="" type="checkbox"/> Application - Utility ( <u>31</u> pgs., with cover and abstract) | <input type="checkbox"/> Information Disclosure Statement & PTO 149 (____ pgs.)      | <input type="checkbox"/> Check No. _____                  |
| <input type="checkbox"/> Application - Rule 1.53(b) Continuation (____ pgs.)                         | <input type="checkbox"/> Issue Fee Transmittal                                       | Amt: _____  |
| <input type="checkbox"/> Application - Rule 1.53(b) Divisional (____ pgs.)                           | <input type="checkbox"/> Notice of Appeal  |   |
| <input type="checkbox"/> Application - Rule 1.53(b) CIP (____ pgs.)                                  | <input type="checkbox"/> Petition for Extension of Time                              |   |
| <input type="checkbox"/> Application - Rule 1.53(d) CPA Transmittal (____ pgs.)                      | <input type="checkbox"/> Petition for _____  |   |
| <input type="checkbox"/> Application - Design (____ pgs.)  | <input checked="" type="checkbox"/> Postcard   |   |
| <input type="checkbox"/> Application - PCT (____ pgs.)   | <input type="checkbox"/> Power of Attorney (____ pgs.)                               |   |
| <input type="checkbox"/> Application - Provisional (____ pgs.)                                       | <input type="checkbox"/> Preliminary Amendment (____ pgs.)                           |   |
| <input type="checkbox"/> Assignment and Cover Sheet  | <input type="checkbox"/> Reply Brief (____ pgs.)                                     |   |
| <input checked="" type="checkbox"/> Certificate of Mailing   | <input type="checkbox"/> Response to Notice of Missing Parts                         |   |
| <input type="checkbox"/> Declaration & POA (____ pgs.)   | <input type="checkbox"/> Small Entity Declaration for Indep. Inventor/Small Business |   |
| <input type="checkbox"/> Disclosure Docs & Orig & Copy of Inventor's Signed Letter (____ pgs.)       | <input checked="" type="checkbox"/> Transmittal Letter, in duplicate                 |   |
| <input checked="" type="checkbox"/> Drawings: <u>22</u> # of sheets includes <u>22</u> figures       | <input checked="" type="checkbox"/> Fee Transmittal, in duplicate                    |   |

Other: Certificate of mailing with copy of return postcard signed  
by attorney

## FEE TRANSMITTAL FOR FY 2001

TOTAL AMOUNT OF PAYMENT (\$) \$1222.00

**Complete if Known:**

Application No. not yet assigned  
Filing Date herewith  
First Named Inventor Qing Ma  
Group Art Unit not yet assigned  
Examiner Name not yet assigned  
Attorney Docket No. 42390.P11430

**METHOD OF PAYMENT (check one)**

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 02-2666  
Deposit Account Name \_\_\_\_\_

☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ Payment Enclosed: ☒ Check  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Credit Card  
Money Order  
Other

**FEE CALCULATION**

**1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
101	710	201	355	Utility application filing fee	<u>710.00</u>
106	320	206	160	Design application filing fee	_____
107	490	207	245	Plant filing fee	_____
108	710	208	355	Reissue filing fee	_____
114	150	214	75	Provisional application filing fee	_____

SUBTOTAL (1) \$ 710.00

**2. EXTRA CLAIM FEES**

		Extra Claims	Fee from below	Fee Paid
Total Claims	<u>54</u>	- 20** = <u>24</u>	X <u>18.00</u>	= <u>432.00</u>
Independent Claims	<u>4</u>	- 3** = <u>1</u>	X <u>80.00</u>	= <u>80.00</u>
Multiple Dependent				= _____

\*\*Or number previously paid, if greater; For Reissues, see below.

Large Entity		Small Entity		Fee Description
Code	Fee (\$)	Code	Fee (\$)	
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ 512.00

**FEE CALCULATION (continued)**

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for ex parte reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	For filing a submission after final rejection (see 37 CFR 1.129(a))	
149	710	249	355	For each additional invention to be examined (see 37 CFR 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
195	300	195	300	Publication fee for early, voluntary, or normal publication	
196	300	196	300	Publication fee for republication	
194	130	194	130	Request for voluntary publication or republication	
098	130	098	130	Processing fee under 37 CFR 1.17(l)	
091	1,240	091	1,240	Acceptance of unintentionally delayed claim for priority	

Other fee (specify) \_\_\_\_\_

Other fee (specify) \_\_\_\_\_

**SUBTOTAL (3) \$ 0.00**

\*Reduced by Basic Filing Fee Paid

#### SUBMITTED BY:

Typed or Printed Name: Chun M. Ng

Signature: \_\_\_\_\_ Date: 6/11/01

Reg. Number: 36,878 Telephone Number: 425-827-8600

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

PATENT APPLICATION SERIAL NO. \_\_\_\_\_

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE  
FEE RECORD SHEET

06/21/2001 MABDI1 00000003 022666 09883036

01 FC:101		710.00 OP
02 FC:102		80.00 OP
03 FC:103	198.00 CH	432.00 OP